| 1 | 1. | A method of patterning a surface, comprising: |
|----|----|---|
| 2 | | providing a stamp having a stamping surface; |
| 3 | | disposing a substrate proximate to the stamping surface; |
| 4 | | modulating the dimensions of the stamp to place the stamping surface in |
| 5 | | contact with the substrate. |
| 6 | | |
| 7 | 2. | The method of claim 1, further comprising modulating the dimensions of the |
| 8. | | stamp before the step of disposing the substrate. |
| 9 | | |
| 10 | 3. | The method of claim 1, further comprising, after the step of modulating the |
| 11 | | dimensions of the stamp to place the stamping surface in contact with the |
| 12 | | substrate, modulating the dimensions of the stamp to facilitate removal of the |
| 13 | | stamping surface from the substrate. |
| 14 | | |
| 15 | 4. | The method of claim 1, wherein the step of modulating the dimensions comprises |
| 16 | | a member of the group consisting of applying a mechanical stress, applying an |
| 17 | | electrical stimulus, removing a mechanical stress, removing an electrical stimulus, |
| 18 | | creating a partial vacuum, venting a vacuum, applying a magnetic field, removing |
| 19 | | a magnetic field, and any combination of the above. |
| 20 | | |
| 21 | 5. | The method of claim 4, wherein the mechanical stress comprises a positive hoop |
| 22 | | stress, a negative hoop stress, or a hydrostatic stress. |
| 23 | | |
| 24 | 6. | The method of claim 1, wherein the entirety of the stamp is modulated at the same |
| 25 | | time. |
| 26 | | |
| 27 | 7. | The method of claim 1, wherein at least one of the stamping surface and a surface |
| 28 | | of the substrate exhibits convexity in at least one dimension, and said convexity |
| 29 | | does not result from a surface texture or pattern. |

8. 1 The method of claim 1, further comprising exposing the substrate to 2 electromagnetic radiation by transmitting said radiation through the stamp, 3 wherein a portion of the stamp is opaque to said radiation. 4 The method of claim 1, further comprising disposing a transferable material on 9. 5 6 the stamping surface, wherein, when the stamp is in contact with the substrate, the 7 transferable material is transferred to the substrate in a pattern corresponding to 8 the pattern on the stamping surface. 9 10 10. The method of claim 9, wherein the transferable material comprises a member of 11 the group consisting of a self-assembled monolayer forming molecule, a protein, 12 an amino acid sequence, a synthetic peptide, a simple carbohydrate, a nucleic acid 13 sequence, a lipid, a complex carbohydrate, an organic molecule, a polymer 14 precursor, an inorganic molecule, an organometallic complex, a metal, a metallic 15 species in a solvent, a metal colloid in a solvent, biological particles suspended in 16 a carrier, and non-biological particles suspended in a carrier, an electroless plating 17 precursor, and any combination of the above. 18 19 11. The method of claim 1, wherein the stamping surface comprises a pattern 20 comprising at least one channel defined by raised portions on the surface of the 21 stamp. 22 23 12. The method of claim 11, wherein a cross section of the stamp includes two raised 24 portions, and wherein an angular distance between the two raised portions is 25 between 0° and 180°.

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13.

portion is 100 nm or greater.

The method of claim 11, wherein a lateral dimension of a channel or a raised

| 1 | 14. | The method of claim 11, further comprising: |
|-----|-----|--|
| 2 | | placing the channel in fluidic communication with a fluid source; and |
| 3 | | causing a fluid to flow from the fluid source through a path bounded by |
| 4 | | the raised portions and the substrate. |
| 5 | | |
| 6 | 15. | The method of claim 14, wherein the fluid comprises a member of the group |
| 7 | | consisting of an etchant, a polymer precursor, a sol-gel fluid, a metal colloid in a |
| 8 | | solvent, cells suspended in a medium, a metallic species in a solvent, a metal, an |
| 9 | | electroplating solution, an electroless plating solution, a reactive gas, and any |
| 10 | | combination of the above. |
| 11 | | |
| 12 | 16. | The method of claim 14, wherein the fluid comprises a solution comprising a |
| 13 | | member of the group consisting of a self-assembled monolayer forming molecule |
| 14 | | a protein, an amino acid sequence, a synthetic peptide, a simple carbohydrate, a |
| 15 | | nucleic acid sequence, a lipid, a complex carbohydrate, an organic molecule, a |
| 16 | | polymer precursor, an inorganic molecule, an electroless plating precursor, an |
| 17 | | organometallic complex, a metallic species, cells in a medium, and any |
| 18 | | combination of the above. |
| 19 | | |
| 20 | 17. | The method of claim 14, further comprising adjusting the temperature of the fluid |
| 21 | | while it is in the channel. |
| 22 | | |
| 23` | 18. | The method of claim 14, further comprising exposing the fluid in the channel to |
| 24 | | an electric current, a magnetic field, or electromagnetic radiation. |
| 25 | | |
| 26 | 19. | The method of claim 14, further comprising exposing the fluid to ultraviolet light |
| 27 | | |
| 28 | 20. | The method of claim 14, further comprising adjusting the temperature of the |
| 29 | | substrate while the fluid is in the channel. |

28

| 1 | 21. | The method of claim 14, wherein a lateral dimension of a channel or raised |
|----|-----|---|
| 2 | | portion is 200 nm or greater. |
| 3 | | |
| 4 | 22. | The method of claim 14, further comprising disposing a material on the substrate |
| 5 | | before the step of causing, wherein a component of the fluid interacts with the |
| 6 | | material when it is disposed in the channel. |
| 7 | | |
| 8 | 23. | The method of claim 14, wherein the fluid comprises a carrier and a material |
| 9 | | dissolved or suspended in the carrier, wherein the method further comprises |
| 10 | | allowing the carrier to dissipate and the material to harden. |
| 11 | | |
| 12 | 24. | The method of claim 11, further comprising wetting the stamping surface with a |
| 13 | | fluid, wherein, when the stamping surface is in contact with the area to be |
| 14 | | patterned, an interaction of the substrate with the fluid causes the substrate to |
| 15 | | develop a surface texture in a pattern conforming to the stamping surface of the |
| 16 | | stamp. |
| 17 | | |
| 18 | 25. | The method of claim 24, wherein the fluid dissolves or swells the substrate. |
| 19 | | |
| 20 | 26. | The method of claim 24, wherein the substrate comprises a polymer. |
| 21 | | |
| 22 | 27. | The method of claim 1, further comprising: |
| 23 | | removing the stamp from the substrate; and |
| 24 | | placing at least a portion of a second stamp against the substrate. |
| 25 | | |
| 26 | 28. | The method of claim 27, further comprising, before the placing step of claim 27, |
| 27 | | disposing the substrate in a specific position with respect to the second stamp |

| 1 | 29. | The method of claim 28, wherein the step of disposing comprises positioning the |
|----|-----|---|
| 2 | | substrate with a micrometer stage, optically setting a mark on the substrate with |
| 3 | | respect to the stamp, or aligning a mark on the substrate with a laser. |
| 4 | | |
| 5 | 30. | The method of claim 1, wherein the substrate comprises a metallic material, a |
| 6 | | semiconductor material, a ceramic, or a polymer. |
| 7 | | |
| 8 | 31. | The method of claim 30, wherein the substrate comprises a coating comprising a |
| 9 | | metallic material, a semiconductor material, a ceramic, a glass, or a polymer. |
| 10 | | |
| 11 | 32. | The method of claim 1, further comprising disposing a material on the substrate |
| 12 | | before the step of placing. |
| 13 | | |
| 14 | 33. | The method of claim 1, wherein the stamp comprises a lumen having a portal |
| 15 | | providing communication between the lumen and an exterior of the stamp. |
| 16 | | |
| 17 | 34. | The method of claim 33, wherein walls of the stamp defining the lumen are |
| 18 | | characterized by flat, curved, or a combination of both. |
| 19 | | |
| 20 | 35. | The method of claim 33, wherein the stamp comprises a tube or balloon. |
| 21 | | |
| 22 | 36. | The method of claim 33, wherein the stamp has a diameter of at least 100 |
| 23 | | micrometers. |
| 24 | | |
| 25 | 37. | The method of claim 1, wherein the stamp and the substrate have the same or |
| 26 | | different shapes. |
| 27 | | |
| 28 | 38. | The method of claim 37, wherein the stamp is adapted and constructed to contact |
| 29 | | a substrate having a surface selected from open, partially closed, and closed. |

| 1 | 39. | A method of patterning a surface, comprising: |
|---------|-----|--|
| 2 | | providing an elastomeric stamp having a textured surface; |
| 3 | | placing at least a portion of the stamp against a substrate having an area to |
| 4 | | be patterned, wherein |
| 5 | | the entire area to be patterned by the stamp is in contact with the |
| 6 | | textured surface when the stamp is placed against the substrate, |
| 7 | | at least one of the textured surface and a surface of the substrate |
| 8 | | exhibits convexity in at least one dimension, and |
| 9 10 | | said convexity does not result from a surface texture or pattern. |
| 11 | 40. | The method of claim 39, further comprising disposing a transferable material on |
| 12 | | the textured surface, wherein, when the stamp is in contact with the substrate, the |
| 13 | | transferable material is transferred to the substrate in a pattern corresponding to a |
| 14 | | pattern defined by the textured surface. |
| 15 | | |
| 16 | 41. | The method of claim 40, wherein the transferable material comprises a member of |
| 17 | | the group consisting of a self-assembled monolayer forming molecule, a protein, |
| 18 | | an amino acid sequence, a synthetic peptide, a simple carbohydrate, a nucleic acid |
| 19 | | sequence, a lipid, a complex carbohydrate, an organic molecule, a polymer |
| 20 | | precursor, an inorganic molecule, an organometallic complex, a metal, a metallic |
| 21 | | species in a solvent, a metal colloid in a solvent, biological particles suspended in |
| 22 | | a carrier, and non-biological particles suspended in a carrier, an electroless plating |
| 23 | | precursor, and any combination of the above. |
| 24 | | |
| 25 | 42. | The method of claim 39, wherein the texture comprises at least one channel |
| 26 | | defined by raised portions on the textured surface of the elastomeric stamp. |
| 27 | | |
| 28 | 43. | The method of claim 42, wherein a lateral dimension of a channel or a raised |
| 29 | | portion is 100 nm or greater. |
| | | ss Mail No. EL674750161US (67_1.DOC |

| | | · · |
|----|-----|---|
| 1 | 44. | The method of claim 42, further comprising: |
| 2 | | placing the channel in fluidic communication with a fluid source; and |
| 3 | | causing a fluid to flow from the fluid source into the channel along a |
| 4 | | surface of the substrate. |
| 5 | | |
| 6 | 45. | The method of claim 44, wherein the fluid comprises a member of the group |
| 7 | | consisting of an etching solution, a polymer precursor, a sol-gel fluid, a metal |
| 8 | | colloid in a solvent, cells suspended in a medium, a metallic species in a solvent, a |
| 9 | | metal, an electroplating solution, an electroless plating solution, a reactive gas, |
| 10 | | and any combination of the above. |
| 11 | | |
| 12 | 46. | The method of claim 44, wherein the fluid comprises a solution comprising a |
| 13 | | member of the group consisting of a self-assembled monolayer forming molecule, |
| 14 | | a protein, an amino acid sequence, a synthetic peptide, a simple carbohydrate, a |
| 15 | | nucleic acid sequence, a lipid, a complex carbohydrate, an organic molecule, a |
| 16 | | polymer precursor, an inorganic molecule, an electroless plating precursor, an |
| 17 | | organometallic complex, a metallic species, cells in a medium, and any |
| 18 | | combination of the above. |
| 19 | | |
| 20 | 47. | The method of claim 44, further comprising adjusting the temperature of the fluid |
| 21 | | while it is in the charnel. |
| 22 | | |
| 23 | 48. | The method of claim 44, further comprising exposing the fluid in the channel to |
| 24 | | an electric current, a magnetic field, or electromagnetic radiation. |
| 25 | | |
| 26 | 49. | The method of claim 44, further comprising exposing the fluid in the channel to |
| 27 | | ultraviolet light. |
| 28 | | l |

| 1 | 50. | The method of claim 44, further comprising adjusting the temperature of the |
|----|-----|---|
| 2 | | substrate while the fluid is in the channel. |
| 3 | | |
| 4 | 51. | The method of claim 44, wherein a lateral dimension of a channel or raised |
| 5 | | portion is 200 nm dr greater. |
| 6 | | |
| 7 | 52. | The method of claim 44, further comprising disposing a material on the substrate |
| 8 | | before the step of causing, wherein a component of the fluid interacts with the |
| 9 | | material when it is disposed in the channel. |
| 10 | | |
| 11 | 53. | The method of claim 44, wherein the fluid comprises a carrier and a material |
| 12 | | dissolved or suspended in the carrier, wherein the method further comprises |
| 13 | | allowing the carrier to dissipate and the material to harden. |
| 14 | | |
| 15 | 54. | The method of claim 39, further comprising wetting the textured surface with a |
| 16 | | fluid, wherein, when the textured surface is in contact with the area to be |
| 17 | | patterned, an interaction of the substrate with the fluid causes the substrate to |
| 18 | | develop a surface texture in a pattern conforming to the textured surface of the |
| 19 | | stamp. |
| 20 | | |
| 21 | 55. | The method of claim 54, wherein the fluid dissolves or swells the substrate. |
| 22 | | |
| 23 | 56. | The method of claim 54, wherein the substrate comprises a polymer. |
| 24 | 57. | The method of claim 39, further comprising: |
| 25 | | removing the stamp from the substrate; and |
| 26 | | placing at least a portion of a second stamp against the substrate. |
| 27 | | |
| 28 | 58. | The method of claim 57, further comprising, before the placing step of claim 58, |
| 29 | | disposing the substrate in a specific position with respect to the second stamp. |

| I | 59. | The method of claim 58, wherein the step of disposing comprises positioning the |
|----|-----|---|
| 2 | | substrate with a micrometer stage, optically setting a mark on the substrate with |
| 3 | | respect to the stamp, or aligning a mark on the substrate with a laser. |
| 4 | | |
| 5 | 60. | The method of claim 39, wherein the substrate comprises a metallic material, a |
| 6 | | semiconductor material, a ceramic, a glass, a polymer, or a composite of a |
| 7 | | plurality of any of the above. |
| 8 | | |
| 9 | 61. | The method of claim 39, wherein the substrate comprises a coating comprising a |
| 10 | | metallic material, a semiconductor material, a ceramic, a glass, a polymer, or a |
| 11 | | composite of a plurality of any of the above. |
| 12 | | |
| 13 | 62. | The method of claim 39, wherein the substrate and the stamp have the same or |
| 14 | | different shapes. |
| 15 | | |
| 16 | 63. | The method of claim 39, further comprising disposing a material on the substrate |
| 17 | | before the step of placing. |
| 18 | | |
| 19 | 64. | The method of claim 39, wherein the stamp comprises a lumen having a portal |
| 20 | | providing communication between the lumen and an exterior of the stamp. |
| 21 | | |
| 22 | 65. | The method of claim 64, wherein walls of the stamp defining the lumen are |
| 23 | | characterized by flat, curved, or a combination of both. |
| 24 | | |
| 25 | 66. | The method of claim 64 wherein the stamp comprises one or two portals. |
| 26 | | \ |
| 27 | 67. | The method of claim 64 wherein the stamp is adapted and constructed to pattern a |
| 28 | | substrate having a shape selected from the group consisting of at least partially |
| 29 | | closed, open, multiplanar, and non-planar. |
| | | 1 |

| 1 | 68. | The method of claim 64 wherein a cross section of the stamp includes two raised |
|----|-----|---|
| 2 | 00. | portions, and wherein an angular distance between the two raised portions is |
| 3 | | between 0° and 180°. |
| | | between 0 and 180. |
| 4 | 60 | The most had a fighting 64 and again the atoms has an immediance of a large 100 |
| 5 | 69. | The method of claim 64 wherein the stamp has an inner diameter of at least 100 |
| 6 | | micrometers. |
| 7 | 70 | |
| 8 | 70. | The method of claim 39, further comprising exposing the substrate to |
| 9 | | electromagnetic radiation by transmitting said radiation through the stamp, |
| 10 | | wherein the texture comprises regions opaque to said radiation. |
| 11 | | |
| 12 | 71. | A deformable stamp having a textured surface, |
| 13 | | wherein the stamp is arranged and constructed to adopt at least two |
| 14 | | conformations, wherein |
| 15 | | in the first conformation, a substrate can be placed proximate to the |
| 16 | | stamp, and |
| 17 | | in the second conformation, a textured surface on the stamp is in |
| 18 | | contact with the substrate. |
| 19 | | |
| 20 | 72. | The stamp of claim 71, wherein the stamp comprises an elastomer. |
| 21 | | |
| 22 | 73. | The stamp of claim 72, wherein the stamp comprises a member of |
| 23 | | poly(dimethylsiloxane), poly(butadiene), poly (acrylamide), poly(butylstyrene), a |
| 24 | | chlorosilane polymer, an epoxy polymer, a diglycidyl ether of bisphenol A, a |
| 25 | | polymer having an aminated aromatic backbone, a polymer having a triazine |
| 26 | | backbone, a polymer having a cycloaliphatic backbone, a co- or block-polymer of |
| 27 | | any of the above, and any combination of the above. |
| 28 | | |

27

| 1 | 74. | The method of claim 71, wherein the textured surface comprises at least one |
|----|-----|--|
| 2 | | channel defined by a raised portion of the stamp. |
| 3 | | |
| 4 | 75. | The stamp of claim 74, wherein the at least one channel and the raised portions |
| 5 | | each define a pattern characterized by a member of continuous, discontinuous, or |
| 6 | | a combination of both. |
| 7 | | |
| 8 | 76. | The method of claim 74, wherein a lateral dimension of a channel or a raised |
| 9 | | portion is 100 nm or greater. |
| 10 | | |
| 11 | 77. | The stamp of claim 71, wherein the stamp exhibits convexity in at least one |
| 12 | | dimension, and said convexity does not result from a surface texture or pattern. |
| 13 | | |
| 14 | 78. | The stamp of claim 71, wherein the stamp comprises a lumen having a portal |
| 15 | | providing communication between the lumen and an exterior of the stamp. |
| 16 | | |
| 17 | 79. | The stamp of claim 78, wherein walls of the stamp defining the lumen are |
| 18 | | characterized by flat, curved, or a combination of both. |
| 19 | | |
| 20 | 80. | The stamp of claim 78, wherein the stamp comprises one or two portals. |
| 21 | | |
| 22 | 81. | The method of claim 78, wherein a cross section of the stamp includes two raised |
| 23 | | portions, and wherein an angular distance between the two raised portions is |
| 24 | | between 0° and 180°. |
| 25 | | |
| 26 | 82. | The method of claim 78, wherein the lumen has a diameter of at least 100 □m. |

| 1 | 83. | The stamp of claim 71, further comprising an interior and an exterior surface, |
|----|-----|--|
| 2 | | wherein the exterior surface comprises the textured surface, the interior surface |
| 3 | | comprises the textured surface, or both of the above. |
| 4 | | |
| 5 | 84. | The stamp of claim 71, wherein the substrate and the stamp have the same or |
| 6 | | different shapes. |
| 7 | | |
| 8 | 85. | The stamp of claim 71, wherein the stamp is adapted and constructed to conform |
| 9 | | to a substrate having a shape selected from the group consisting of at least |
| 10 | | partially closed, open, multiplanar, and non-planar. |
| 11 | | |
| 12 | 86. | A method of inking a stamp, comprising: |
| 13 | | providing a re-inker having a surface; and |
| 14 | | placing the surface of first and second portions of the re-inker in contact |
| 15 | | with a stamping surface of the stamp, |
| 16 | | wherein the step of placing comprises modulating the dimensions of the |
| 17 | | stamping surface of the stamp or contacting a portion of the stamping surface with |
| 18 | | the re-inker and a substrate to be patterned by the stamp simultaneously. |
| 19 | | |
| 20 | 87. | The method of claim 86, wherein the re-inker has a first and a second surface, and |
| 21 | | wherein the first and second surfaces are not in fluidic communication. |
| 22 | | |
| 23 | 88. | The method of claim 86 wherein the re-inker in incorporated into a substrate to |
| 24 | | be patterned by the stamp. |
| 25 | | |
| 26 | 89. | The method of claim 86, wherein the re-inker is fabricated from a molecular gel. |
| 27 | | |
| 28 | 90. | The method of claim 86, wherein the stamping surface of the stamp is an interior |
| 29 | | or an exterior surface of the stamp. |
| | | V |

| 1 | 91. | The method of claim 86, further comprising disposing the re-inker between the |
|----|-----|---|
| 2 | | stamp and a substrate before the step of placing. |
| 3 | | |
| 4 | 92. | The method of claim 86, further comprising, before the step of placing: |
| 5 | | separating first and second portions of the re-inker along a seam; and |
| 6 | | disposing the first and second portions of the re-inker between the stamp and a |
| 7 | | substrate. |
| 8 | | |
| 9 | 93. | A method of releasing a molded polymer from a master, comprising, |
| 10 | | swelling the polymer with a solvent; and |
| 11 | | sliding or disengaging the polymer from the master, |
| 12 | | wherein the molded polymer has a partially closed surface. |
| 13 | | |
| 14 | 94. | The method of claim 93, wherein the polymer has a relief pattern molded into at |
| 15 | | least one surface. |
| 16 | | |
| 17 | 95. | The method of 93, wherein the polymer comprises an elastomer. |
| 18 | | |
| 19 | 96. | The method of claim 93, wherein the solvent comprises a member of the group |
| 20 | | consisting of dichloromethane, toluene, tetrahydrofuran, benzene, chloroform, and |
| 21 | | carbon tetrachloride. |
| 22 | 97. | The method of claim 93, further comprising inverting the stamp. |
| 23 | | |
| 24 | 98. | A method of continuously stamping a substrate, comprising: |
| 25 | | providing a stamp having an at least partially closed surface; |
| 26 | | placing the stamp in contact with a substrate; and |
| 27 | | causing relative advancement of the substrate with respect to the stamp, |
| 28 | | wherein: |
| 29 | | the stamp revolves about an axis parallel to a surface of the substrate, |
| | | ss Mail No. EL674750161US 67_1.DOC |

| 1 | | the stamp has a pattern defined by raised portions on a surface that |
|----|------|---|
| 2 | | contacts the substrate, and |
| 3 | | an ink is transferred from the stamp to the substrate where the substrate |
| 4 | | comes in contact with the raised portions. |
| 5 | | |
| 6 | 99. | The method of claim 98, wherein the pattern defined by the raised portions is |
| 7 | | continuous with respect to a circumference of the stamp. |
| 8 | | |
| 9 | 100. | The method of claim 98, further comprising re-inking the stamp. |
| 10 | | |
| 11 | 101. | The method of claim 100, wherein re-inking comprises: |
| 12 | | placing a reservoir of ink in fluidic contact with the stamp, |
| 13 | | wherein the stamp is re-inked as it revolves. |
| 14 | | |
| 15 | 102. | The method of claim 101, further comprising choosing a speed of stamp |
| 16 | | revolution such that a re-inked portion of the stamp will dry before the re-inked |
| 17 | | portion of the stamp contacts the substrate. |
| 18 | | |
| 19 | 103. | The method of 101, further comprising drying a re-inked portion of the stamp |
| 20 | | before the re-inked portion contacts the substrate. |
| 21 | | |
| 22 | 104. | An apparatus for patterning a substrate, comprising |
| 23 | | a chamber having first and second ends, wherein the chamber is in fluidic |
| 24 | | communication with a vacuum source; |
| 25 | | first and second caps sealably affixed to the first and second ends of the |
| 26 | | chamber; |
| 27 | | first and second rigid tubes sealably attached to the first and second ends, |
| 28 | | wherein the first and second tubes provide a conduit from an exterior of the |
| 29 | | apparatus to an interior of the apparatus; and |

| 1 | | a stamp having first and second ends sealably attached to an interior end |
|----|--------|--|
| 2 | | of each of the first and second rigid tubes, wherein a lumen of the stamp is in |
| 3 | | fluidic communication with the exterior of the chamber. |
| 4 | | |
| 5 | 105. | The apparatus of claim 104, wherein at least one of the seals is effected by an o- |
| 6 | | ring or gasket. |
| 7 | | |
| 8 | 106. | The apparatus of claim 104, wherein at least one of the seals is effected by a |
| 9 | | threaded fitting. |
| 10 | | |
| 11 | 107. | The apparatus of claim 104; wherein the chamber comprises two portions that are |
| 12 | | sealably connected. |
| 13 | | |
| 14 | 108. | The apparatus of claim \04, wherein at least one of the caps is removable. |
| 15 | | |
| 16 | 109. | The apparatus of claim 104, wherein at least one of the rigid tubes is removable. |
| 17 | | |
| 18 | 110. | A photomask, comprising: |
| 19 | | a deformable stamp according to claim 71, wherein the stamp is at least |
| 20 | | translucent, and wherein the textured surface comprises interspersed opaque and |
| 21 | | at least translucent regions. |
| 22 | 111. | The mask of claim 110, wherein the stamp comprises an interior and an exterior |
| 23 | | surface, and wherein the textured surface comprises the interior or the exterior |
| 24 | | surface. |
| 25 | | |
| 26 | 112. | The mask of claim 110, wherein the opaque regions are metallized. |
| 27 | | |
| 28 | 113. | The mask of claim 110, wherein the texture comprises at least one channel |
| 29 | | defined by raised portions on the textured surface of the mask, and wherein the |
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| 1 | | opaque regions comprise an end surface of the raised portions or walls of the |
|---|------|---|
| 2 | | channel. |
| 3 | | |
| 4 | 114. | The mask of claim 110, wherein the texture comprises the interspersed opaqu |
| 5 | | and at least translucent regions. |
| 6 | | Y |
| 7 | 115. | The mask of claim 110, wherein the stamp comprises a transparent material. |